

ABSTRACT OF THE DISCLOSURE

The use of dielectrophoresis to collect particles under the conditions of electrokinetically-driven flow. Dielectrophoretic concentration of particles under electrokinetic flow is accomplished by interdigitated electrodes patterned on an inner surface of a microfluid channel, a DC voltage is applied across the ends to the channel, and an AC voltage is applied across the electrodes, and particles swept
5 down the channel electrokinetically are trapped within the field established by the electrodes. The particles can be released when the voltage to the electrodes is released.

008027 2592260